

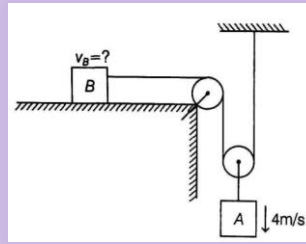
SUBJECT : PHYSICS

TOPIC: NEWTON'S LAWS OF MOTION

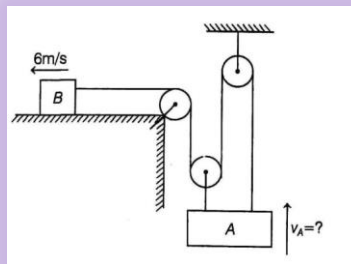
TIME:

DATE:

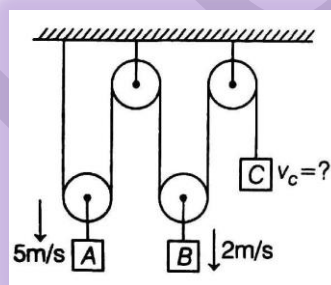
1. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



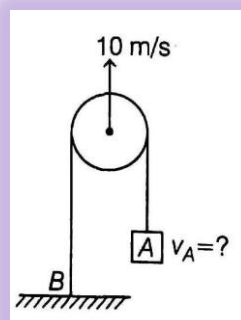
2. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



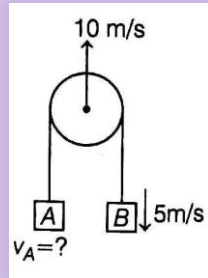
3. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



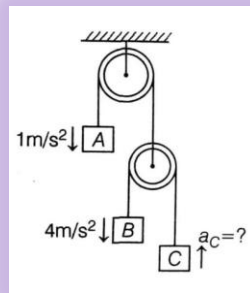
4. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



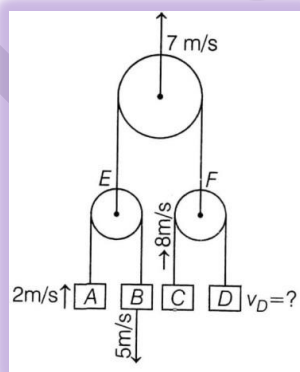
5. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



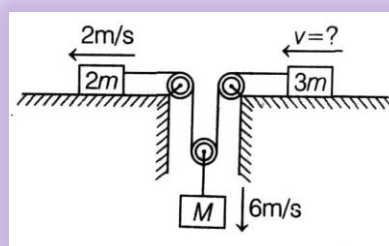
6. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



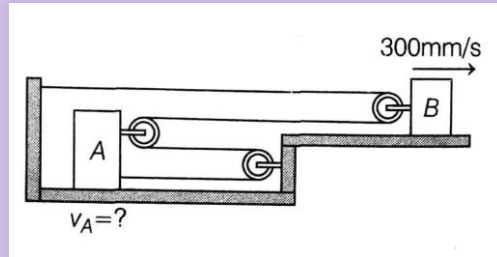
7. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



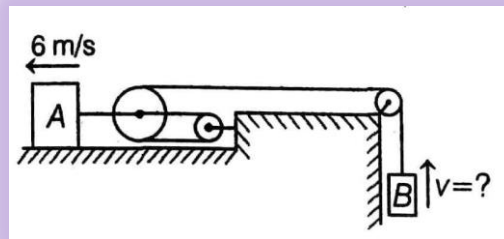
8. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



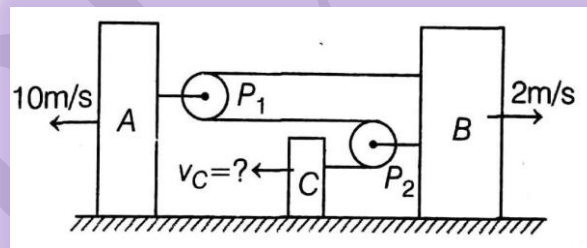
9. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



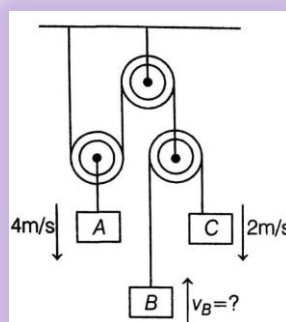
10. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



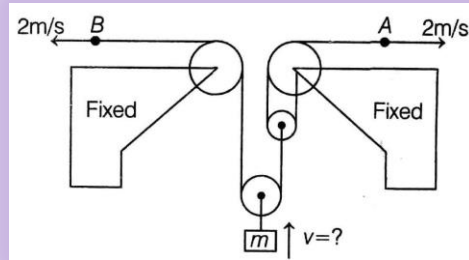
11. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



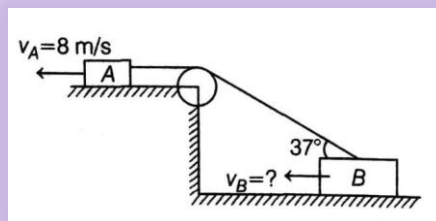
12. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



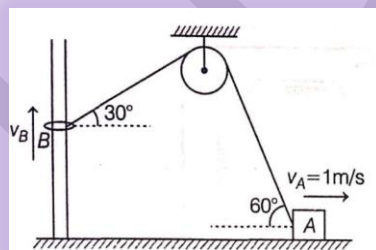
13. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



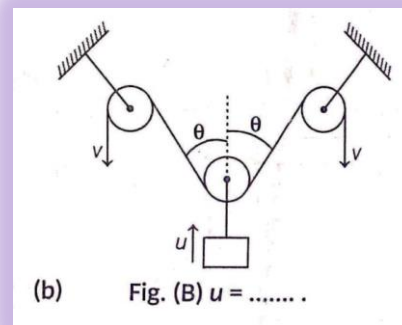
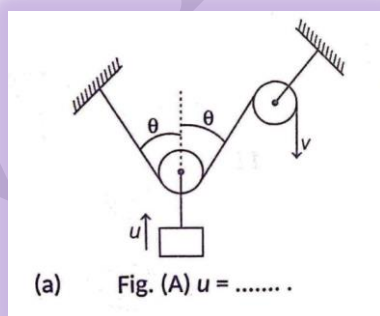
14. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



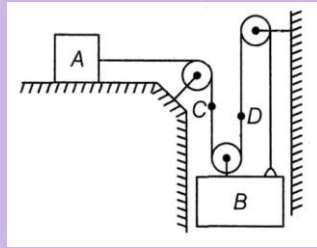
15. In the following questions, find unknown velocity and acceleration using string constraints. All strings are inextensible.



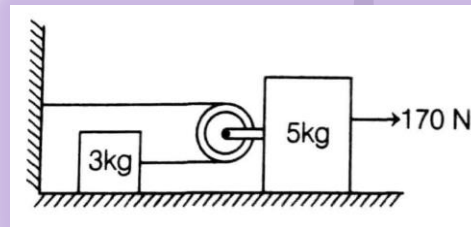
16. If the string is inextensible, determine the velocity u of each block in terms of v and θ .



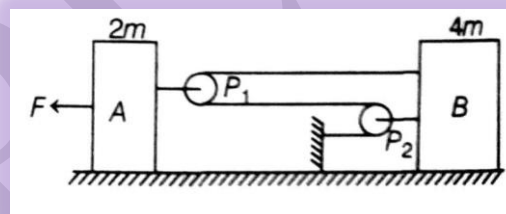
17. Slider block A moves to the left with a constant velocity of 6 m/s. Determine



- (a) the velocity of block B
 (b) the velocity of portion D of the cable
 (c) the relative velocity of portion C of the cable with respect to portion D
18. All strings are massless and inextensible. All Pulleys are smooth and moveable pulleys are massless. Find acceleration of all the blocks.



19. All strings are massless and inextensible. All Pulleys are smooth and moveable pulleys are massless. Find acceleration of all the blocks.



20. All strings are massless and inextensible. All Pulleys are smooth and moveable pulleys are massless. Find acceleration of all the blocks.

